# POWER MANAGEMENT FOR A PIPELINED CIRCUIT Joseph KU DOCKET NO.: 10013827-1 1/8 BACK-END DETECTION DETECTIO

P<sub>N</sub>

ြို

Δ

出

COMB. CKT

CKT

118

BUS

PIPELINED CIRCUIT 110

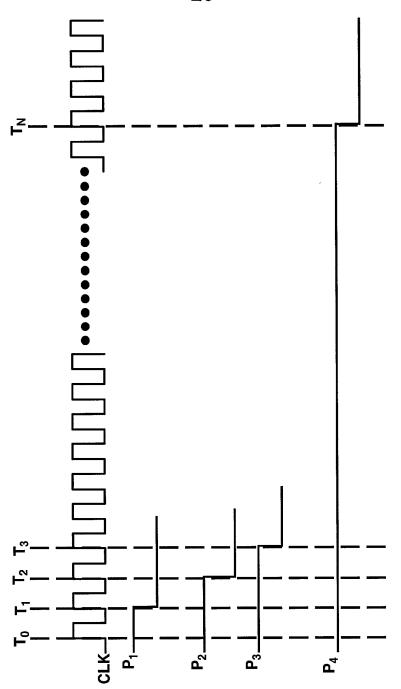
BUFFER

9

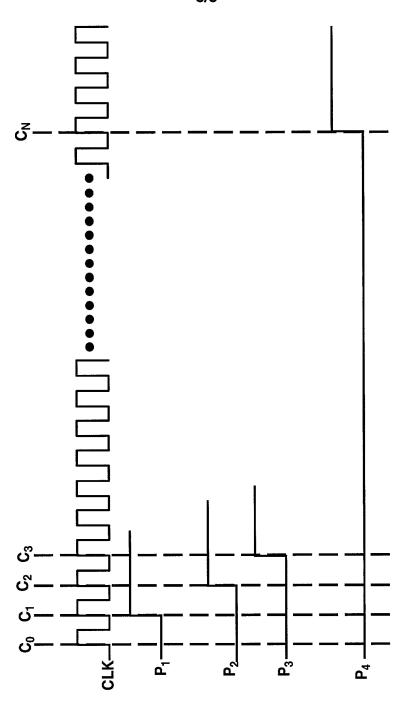
130 STAGE POWER CONTROL FRONT-END TRANSITION DETECTION 135

#### **POWER MANAGEMENT FOR A** PIPELINED CIRCUIT Joseph KU DOCKET NO.: 10013827-1

2/8



# **POWER MANAGEMENT FOR A PIPELINED CIRCUIT** Joseph KU DOCKET NO.: 10013827-1 3/8



# POWER MANAGEMENT FOR A PIPELINED CIRCUIT Joseph KU DOCKET NO.: 100013827-1 4/8

<u>130</u>

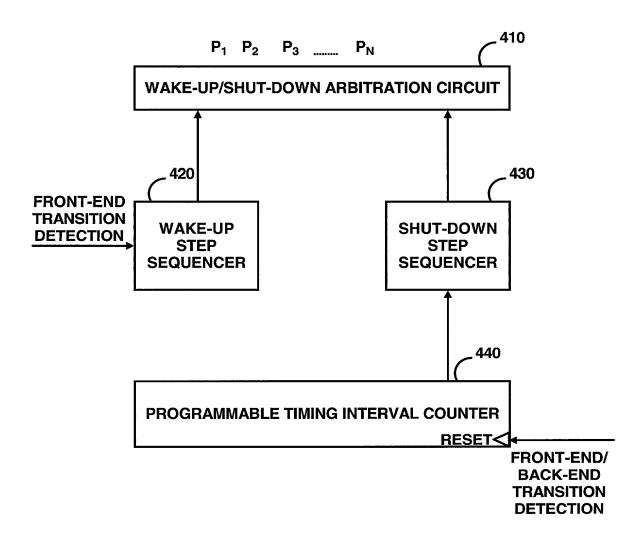


FIG. 4

# **POWER MANAGEMENT FOR A** PIPELINED CIRCUIT Joseph KU DOCKET NO.: 10013827-1 5/8

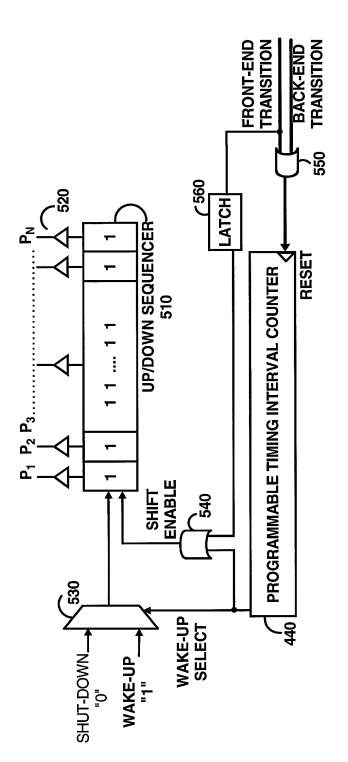


FIG. 5A

## **POWER MANAGEMENT FOR A** PIPELINED CIRCUIT Joseph KU DOCKET NO.: 10013827-1 6/8

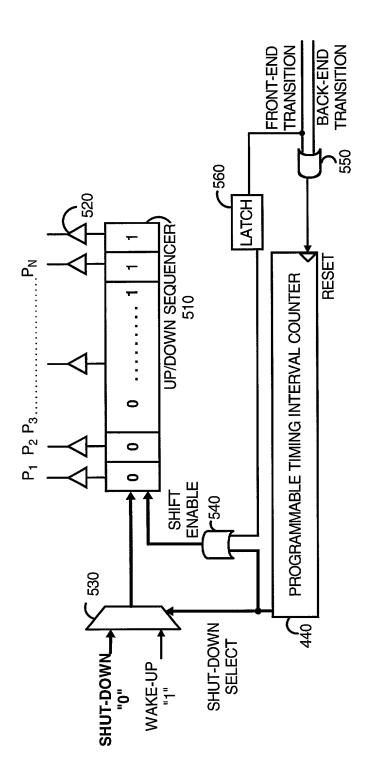


FIG. 5B

# **POWER MANAGEMENT FOR A PIPELINED CIRCUIT** Joseph KU DOCKET NO.: 10013827-1 7/8

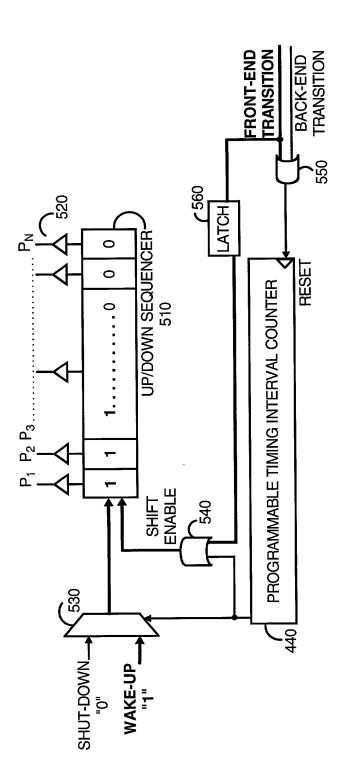


FIG. 5C

### **POWER MANAGEMENT FOR A PIPELINED CIRCUIT** Joseph KU **DOCKET NO.: 100013827-1** 8/8 <u>600</u> **BEGIN** -610 NO TRANSITION DETECTED NO PRIOR TO A LAPSE OF THE PREDETERMINED **PERIOD OF TIME? YES PERFORM** 615 **SEQUENTIAL SHUT-DOWN PROCEDURE** 620 TRANSITION DETECTED NO AT THE INPUT OF THE **PIPELINED CIRCUIT?** YES **PERFORM** 625 **SEQUENTIAL TURN-ON PROCEDURE** FIG. 6